# Approved For Release 2004 06129 CIA-RDP78B0474 A000300020012-4

		25X1A
		. ** * *
	MEMORANDUM FOR: Chief, Technical Services Group, NPIC	
	ATTENTION : Chief, Technical Operations Staff, TSG	
	SUBJECT: RED Monthly Report (December 1971)	
	Significant Items of Interest for December 1971:	25X1A
	1. Rectification of Tone Reproduction - In a meeting	25X1A
	ment feasibility study were not sufficiently favorable to	
	warrant continued support of this task. This work I and	25X1A
	it showed promise as a means of enhancing underexposer, when	•
	when it was applied to certain non activities that the process was applied to aerial films, the anomalous effect was not sufficiently strong to yield useable enhancement.	25X1D
		25X1A
	to discuss color processing problems and tech-	
	niques. During this meeting, the use of the processing	25X1A 25X1A
	will provide color control strips and proper aim-points for setting up the Exploratory Laboratory color processor.	
	1 1 and the final report covering	25X1A
	the five years of research under the contract will be received	
	of 23 January to discuss contents of the report.	25X1A
	5. Impact Resistant Spectacles Research - Work is underway to test what effect a recent ruling by the FDA regarding way to test what effect a recent ruling by the page on precise	
	error tolerance, in prescription glasses might have on prescription	
	mensuration accuracy.	25X1A
and to the state of the state o	TIP SFIRFT	
GROUP 1 Excluded from a downgrading	utomatic	
declassitica		

Declass Review by NIMA/DOD Approved For Release 2004/06/29 : CIA-RDP78B04747A000300020012-4 NRO review(s) completed.

#### Approved For Release 2004/06/29 10 ARDP78B047474000300020012-4 ATTACHMENT TO: 25X1A 25X1A Search Improvement Program Sixteen 25X1A interpreters were selected by IEG management to serve as subjects in the Search Improvement Program. Each PI was interpersonnel, and contributed to an extensive viewed by 25X1A search improvement survey. Data collection of search performance will begin in early January. (ATB) 25X1A completed the first phase of data collection on a program to test these subjects' peripheral acuity. The study will be repeated on a monthly basis throughout the summer. Equipment Development Support 25X1A 7. Image Comparison Microstereoscope - Data collection was completed on the Viewing Modes Evaluation for the ICM. b. Scan and Search PI Station -25X1A <u>perso</u>nnel attended the preacceptance testing of the Station Information 25X1A obtained from this meeting will be included in a detailed test plan for the operational suitability testing of the instrument. The plan will be presented to ATB/HFS for acceptance in early January. 25X1D Training Needs Associated with Color Photography ATB/HFS has received "Center Color 25X1A

25X1A

25X1A

Training Needs, Courses, and Implementation Guidelines". is the final technical document to be received from the contractor under the FY-71 program. The Center components will be requested to review the recommendations cited therein.

Color Vocabulary Handbook - ATB/HFS has proposed an in-house task team to author a "Color Vocabulary Handbook". The "Handbook" will be designed to train personnel in the use of the several levels of the Color Vocabulary recommended by for adoption in the Center.

Color Technology Implementation Ninety percent of the work orders are complete; the Tintometer, a visual comparison colorimeter, was received -it is a deliverable item under this contract.

25X1A

25X1A

25X1A

### TOP SECRET

#### Approved For Release 2004/06/29: 014-RDP78B04747/000300020012-4 25X1A . <u>ATTACHMENT TO:</u> 25X1A A technical 25X1A Consultation Task 12. 25X1A meeting is planned for February 25X1A 25X1A The purpose of this discussion is to exchange technical results from the various government-funded color research programs. Digital Image Manipulation Support to DDS&T/ORD/AP -13. Image manipulation experiments were conducted on 15 December and ATB perin ATB 25X1A sonnel for DDS&T/ORD/AP to test the reliability of an electromagnetic detector. Results obtained using the Image Translation Facility allowed contrast enhancement of data plots which differentiated between wooden and metal boxes behind a wall. This was the first successful test of the ORD electromagnetic 25X1D detector. 25X1A Software for the Minimum Contact Densitometer -16. 25X1A 25X1A (PSG/AID) met with 25X1A for the Minimum to discuss software requirements Densitometer being built This instrument is due for delivery in June 1972. A two-part software package was defined: Part I, which covers minimum instrument performance, is required by the June delivery to permit early instrument check-out; and Part II, which allows full realization of instrument capability, felt that AID could is required by December 1972. 25X1A fulfill our needs and that the time scale was realistic. 25X1A

TOP SECRET

## Approved For Release 2004/06/29:1314-RDP78B04747A900300020012-4

25X1A	ATTACHMENT TO:	
	ATTACHMENT TO:	25X1A
	17. SDB personnel have completed the assembly and typing of the EXRAND Technical Task Team Fourth Annual Report: Consolidated R&D Project List for FY 1972 and 1973. This report was distributed to the community in mid-December.	
25X1A	18. has prepared a users manual for RADCIS, the NPIC Research and Development Contract Information System.	
25X1A	19. has been investigating suitable materials for use in flexible hold-down configurations.	Andrew Communication of the Co
	20. The following proposals are currently being evaluated:	
	a. Advanced Photometer	25X1A
	b. Vibration Elimination	25X1A
	c. MTF Analyzer - Phase 2	25X1A
	d. Dry Silver Color Research	25X1A
25X1A	e. Improved Film Hold-Down for High Magnification Viewing	
25X1A	f. Interpupillary and Rotational Lock for Zoom 240	
	21. CRT Image Quality Evaluation began conducting their objective engineering measurements on the CRT's and will be prepared to begin the subjective tests, with NPIC	25X1A
	photo interpreters, in late January or early February has submitted a change-in-scope proposal for reformatting the magnetic tape data given to them by OSP through NPIC.	25X1A
	22. Digital Image Storage Study The contractor is developing evaluation criteria for memory systems in order to rate the relative effectiveness of the various systems.	25X1A
	Work is proceeding slowly pending receipt of the necessary special project clearances.	
	23. Viewing Systems Study  The manuscript for the first four sections of Volume II are nearing com-	25X1A
25X1A	pletion. is scheduled to review and evaluate these sections in the latter part of February.	
		25X1A
	TOP SECRET	

<u>ATTACHM</u> ]	PAIT TO.
	25X1A
24. Lenticular Rear Projection Screen Delivery of the anticipated 48 and 18	
screen has been delayed until 15 February 1972;	ne lenticular however. we
do not anticipate that delivery of the two 30" x scheduled for July, will be affected.	30" screens,
1D	
28. Stereo Scanning Utility Study  December, the contractor	
areas and appointed and selected IEG PI's ou	□During 25X1A tlined search
That task will be and the carget reado	iit teet imagaans
have limited contracts. In-house recommendations and a state of the st	rt WIII be Guirements
challging schedules for upon	IS. along with
for the Target Posdout Target a mid-	gthened the June start
preparation to continue in a special larger	hearch Test
the as vet undetermined.	llong with
stantially affect the previously submitted change-	in-scope
ang kananang panggarang at mananang panggarang panggarang panggarang panggarang panggarang panggarang panggara	
project monitor visited to Control Breadboard	The 25X1A
results of some preliminary tests indicate that the sign concept is valid; however, the commitments	mber. The
to other NPIC contracts have	25X1A
to other NPIC contracts have delayed completion or by approximately three months.	the project
	25X1A
5 <b>5</b>	
TOP SECRET	25X1

Approved For Release 2004/06/29 : CIA-RDP78B04747A000300020012-4

# Approved For Release 70970672111114-RDP78B04747A000300020012-4

25X1A	ATTACHMENT TO:	25X1 <i>A</i>
25X1A	30. (ESD) performed pre- acceptance tests on PI Scan & Search Station during the period 13-17 December. The instrument failed to meet specifications. The instrument will be tested again in mid-March after the deficiencies are corrected.	25X1A
25X1A	delivery tests on the PI Print Station (PIPS). The PIPS met all specifications and will be delivered to NPIC early in January. ESD and IEG will perform additional test and evaluation on the PIPS during January.	
25X1A	have corrected the heat and stabilization problem on the calibration device for the HPSC. The calibration device was returned to NPIC on 17 December and is undergoing evaluation on the HPSC.	
	completed the preacceptance tests on the light table as configured for DIA. The table was shipped by air and received in the Center during the week of 5 December. Testing and evaluation by ESD will begin early in January.	25X1A 25X1A
25X1A	7-8 December. Several recommendations were made on improving the Operational Manual for the kit. The kit will be delivered to the Center early in January.	25X1A
25X1A 25X1A	35. delivered and installed an antivibration retrofit kit on an light table. Preliminary indications are that this kit decreased vibration by a factor of 10. ESD is expected to test and evaluate the kit during January.	
	36. Meetings, Briefings, etc.:	
25X1A	a. attended a briefing on an Scanning Densitometer at TOPOCOM, Bethesda, Md., on 14 December.	25X1A
25X1A	b. accompanied to review a CRI display evaluation test plan.	25X1A 25X1A
	c. RED optics consultant) met with:	25 <b>X</b> 1Δ
	(RED optics consultant) met with:	25X1

25X1A	ATTACHMENT TO:	05)/44
		25X1A
25X1A	review	
23X IA	Volume II of the "Viewing Systems Handbook.	
25X1A	2) Personnel to view a recent development in rear	25X1A
	projection viewing displays.	
25X1A	3) Personnel to review human factors research in the design of optical viewing systems.	25X1A
25X1A	d. briefed the Color Exploitation Working Group on ATB's color research programs. Special emphasis was placed on the Color Vocabulary as proposed	25X1A
25X1A	briefed on 14	25X1
	December 1971 on the NPIC Color RED Program.	25X1A
	were briefed	
	Process. This process, which is commercially oriented as a	
25X1A	for producing high color quality reflection prints of	25X1
	imagery. Itel that the process in addition in the process in addition in the offered constructive suggestions on color measurements and stability, and on-screen line densities for inclusion in the scope of a proposed R&D project.	
25X1A	f. briefed the Director/NPIC on the 10" x 10" Stage Stereo Comparator.	25X1A
25X1A	g. briefed (OCI) on the High Precision Stereo Comparator.	25X1A
25X1A	h. briefed IEG on the proposed 15X eyepieces and 3X objectives for the Zoom	25X1
25X1A	i. briefed the Planning Staff on R&D contracts and the RADCIS Computer Program.	
	37. Personnel:	
25X1A		
	7	25X1A
	TOP SECRET	
um La Singago da Pinangago da	Approved For Release 2004/06/29 : CIA-RDP78B04747A000300020012-4	